

FIG. 1A

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-----|-----|
| atg agg gtc | aca aag atc | cat ggg aga | agc atg gct | tcc tgg ggt | cac | 48 |
| Met Arg Val | Thr Lys Ile | His Gly Arg | Ser Met Ala | Ser Trp Gly | His | |
| 1 | 5 | 10 | 15 | | | |
| aca ttc act | cac cac ttc | ctt tgg ctg | gga gtg ggg | gct ccc ttg | gtt | 96 |
| Thr Phe Thr | His His Phe | Leu Trp Leu | Gly Val Gly | Ala Pro Leu | Val | |
| | 20 | 25 | 30 | | | |
| aca tgt cac | tcc agg gtg | ggt tgt tgc | tcc ccc cct | ttt ctt cat | tct | 144 |
| Thr Cys His | Ser Arg Val | Gly Cys Cys | Ser Pro Pro | Phe Leu His | Ser | |
| | 35 | 40 | 45 | | | |
| cca tgg gtt | gtt tcc ctg | atc agt ccc | aat gcg agt | acc tgg ata | tat | 192 |
| Pro Trp Val | Val Ser Leu | Ile Ser Pro | Asn Ala Ser | Thr Trp Ile | Tyr | |
| | 50 | 55 | 60 | | | |
| cag ttg aag | act ttg aag | cct gag aaa | aca gac tat | gtt tat gtg | aag | 240 |
| Gln Leu Lys | Thr Leu Lys | Pro Glu Lys | Thr Asp Tyr | Val Tyr Val | Lys | |
| 65 | 70 | 75 | 80 | | | |
| ctt ttg ttt | ctg gag atg | aaa ata gca | gag cca aga | gga atg atg | aaa | 288 |
| Leu Leu Phe | Leu Glu Met | Lys Ile Ala | Glu Pro Arg | Gly Met Met | Lys | |
| | 85 | 90 | 95 | | | |
| aaa ttc act | gtt gga cta | tat gga aaa | ctc agg ctg | tgt tca tgg | tct | 336 |
| Lys Phe Thr | Val Gly Leu | Tyr Gly Lys | Leu Arg Leu | Cys Ser Trp | Ser | |
| | 100 | 105 | 110 | | | |
| ttg agt gaa | cta ttt tca | aca ttg aaa | att gac aca | cct cag cgg | ggg | 384 |
| Leu Ser Glu | Leu Phe Ser | Thr Leu Lys | Ile Asp Thr | Pro Gln Arg | Gly | |
| | 115 | 120 | 125 | | | |
| agc att cag | gat atc aat | cat cgg gtg | tgg gtt ctt | cag gac cag | acg | 432 |
| Ser Ile Gln | Asp Ile Asn | His Arg Val | Trp Val Leu | Gln Asp Gln | Thr | |
| | 130 | 135 | 140 | | | |
| ctc ata gca | gtc ccg agg | aag gac cgt | atg tct cca | gtc act att | gcc | 480 |
| Leu Ile Ala | Val Pro Arg | Lys Asp Arg | Met Ser Pro | Val Thr Ile | Ala | |
| 145 | 150 | 155 | 160 | | | |
| tta atc tca | tgc cga cat | gtg gag acc | ctt gag aaa | gac aga ggg | gac | 528 |
| Leu Ile Ser | Cys Arg His | Val Glu Thr | Leu Glu Lys | Asp Arg Gly | Asp | |
| | 165 | 170 | 175 | | | |
| ccc atc tac | ctg ggc ctg | aat gga ctc | aat ctc tgc | ctg atg tgt | gct | 576 |
| Pro Ile Tyr | Leu Gly Leu | Asn Gly Leu | Asn Leu Cys | Leu Met Cys | Ala | |
| | 180 | 185 | 190 | | | |
| aaa gtc ggg | gac cag ccc | aca ctg cag | ctg aag gaa | aag gat ata | atg | 624 |
| Lys Val Gly | Asp Gln Pro | Thr Leu Gln | Leu Lys Glu | Lys Asp Ile | Met | |
| | 195 | 200 | 205 | | | |

FIG. 1B

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| gat | ttg | tac | aac | caa | ccc | gag | cct | gtg | aag | tcc | ttt | ctc | ttc | tac | cac | 672 |
| Asp | Leu | Tyr | Asn | Gln | Pro | Glu | Pro | Val | Lys | Ser | Phe | Leu | Phe | Tyr | His | |
| 210 | | | | | | 215 | | | | | 220 | | | | | |
| agc | cag | agt | ggc | agg | aac | tcc | acc | ttc | gag | tct | gtg | gct | ttc | cct | ggc | 720 |
| Ser | Gln | Ser | Gly | Arg | Asn | Ser | Thr | Phe | Glu | Ser | Val | Ala | Phe | Pro | Gly | |
| 225 | | | | | 230 | | | | 235 | | | | | | 240 | |
| tgg | ttc | atc | gct | gtc | agc | tct | gaa | gga | ggc | tgt | cct | ctc | atc | ctt | acc | 768 |
| Trp | Phe | Ile | Ala | Val | Ser | Ser | Glu | Gly | Gly | Cys | Pro | Leu | Ile | Leu | Thr | |
| | | | | 245 | | | | | 250 | | | | | 255 | | |
| caa | gaa | ctg | ggg | aaa | gcc | aac | act | act | gac | ttt | ggg | tta | act | atg | ctg | 816 |
| Gln | Glu | Leu | Gly | Lys | Ala | Asn | Thr | Thr | Asp | Phe | Gly | Leu | Thr | Met | Leu | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| ttt | | | | | | | | | | | | | | | | 819 |
| Phe | | | | | | | | | | | | | | | | |

BEST AVAILABLE COPY